USER MANUAL

DVR

Digital Video Recorder

INDEX

Chapter 1： DVR Features **3**
DVR Feature 3
Chapter 2：Layout **4**
2.1 Front Panel 4
2.1.1 4-CH DVR Front Panel(For reference only) 4
2.2 Rear Panel 4
2.2.1 DVR Rear Panel(For reference only) 4
2.3 Remote Controller 5
3.1 Hard Disk Installation 6
3.2 Connecting Camera and Monitor 6
3.3 Connecting Power Supply 6
Chapter 4： DVR Starting **7**
4.1 Firmware version 7
4.2 Detecting Installed Hard Drive 7
4.3 Format Hard Drive 7
Chapter 5： DVR Menu System **8**
5.1 Browsing the Main Menu 8
5.2 Menu overview 8
5.3 Camera Setup 9
5.4 Record Setup 9
5.5 Record Framerate 9
5.6 Video Quality 10
5.7 Record Schedule 10
5.8 Sensor Setup 11
5.9 Motion Detector Setup 11
5.10 Hard Drive Setup 12
5.11 Miscellaneous Setup – Change Password 12
5.12 Miscellaneous Setup – Set Time 13
5.13 Miscellaneous Setup – Hidden Channel 13
5.14 Miscellaneous Setup – Audio Port Setup 13
5.15 Miscellaneous Setup – Image Parameters 13
5.16 Miscellaneous Setup – Password Enable 14
5.17 Miscellaneous Setup – Keypad tones 14
5.18 Miscellaneous Setup- SEQ. DWELL TIME 14
5.19 Network Setup 15
5.20 LANGUAGE 17
5.21 RESET MENU 17
5.22 NTSC/PAL Output Select 17
Chapter 6：Record **18**
6.1 Starting Recording 18
6.2 Audio Recording 18
6.3 Stoping Recording 19
6.4 Estimated Recording Length 19
Chapter 7：Playback **20**

7.1 Playback Control 20
Chapter 8： USB Progamming 21
8.1 Driver Installation 21
8.2 Program Interface 21
8.3 Program Running 22
8.3.1 HDD Play Mode 22
8.3.2 FILE Play Mode 23
8.3.3 NET Play Mode 24
8.4 IE Remote control DVR 24
Chapter 9： Specification 26
DVR Specification 26
Chapter 10：Appendix 27
10.1 System Connection Configuration 27
10.2 Accessories 27

Chapter 1： DVR Features

DVR Feature

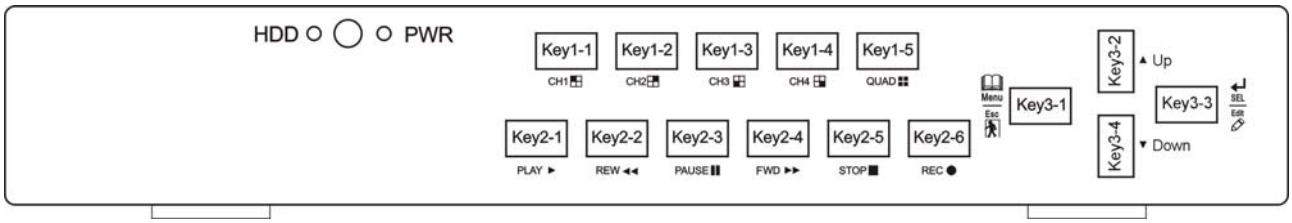
- MPEG4 Compression;
- Video Input / Output：4-CH Video Input- 1-CH Video Output;

  Audio Input / Output: 1-CH Audio Input / 1-CH Audio Output;
- Well Image quality, High definition;
- System Format: NTSC/PAL；
- Adopt SOC one chip with high stability;
- Linux operation System, well network transmission;
- Supports Multi recording Mode: Continuous, Motion Detection, Time Schedule recording;
- Supports Event List and Search/Playback at some specified time point;
- Supports Hidden Channel and Playback display;
- Video signal Missing Alarm Function;
- Password Protection Function；
- Supports IR Remote Controller；
- Hard drive Support up to 500GB；

Chapter 2：Layout

2.1 Front Panel

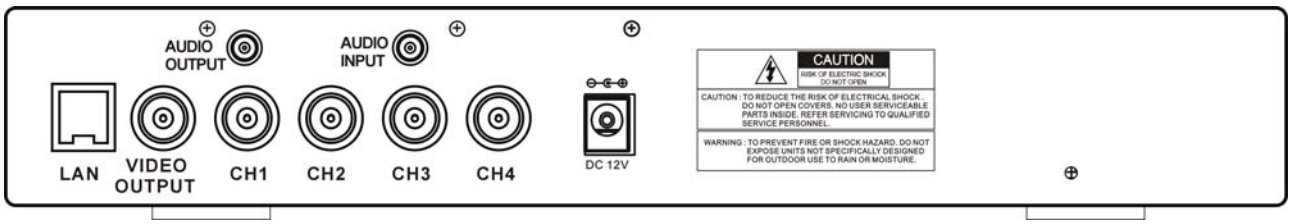
2.1.1 4-CH DVR Front Panel(For reference only)



1. **HDD**:HDD LED
   IR Receiver window
   PWR: Power LED
2. **CH1**: CH 1
3. **CH2**: CH 2
4. **CH3**: CH 3
5. **CH4**: CH 4
6. **Quad**: View all channels
7. **PLAY** ►:Play
8. **REW**◄◄: Rewind
9. **PAUSE**❚❚: Pause
10. **FWD**►►: Forward
11. **STOP** ■:
12. **REC** ●: Record
13. Menu / Esc :Menu/ESC/Left
14. SEL / Edit :Select/Edit/Right
15. ▲**UP**:
16. ▼ **DOWN**:

2.2 Rear Panel

2.2.1 DVR Rear Panel(For reference only)


AUDIO OUTPUT
AUDIO INPUT
LAN
VIDEO OUTPUT
CH1
CH2
CH3
CH4
DC 12V
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRICAL SHOCK : DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
WARNING : TO PREVENT FIRE OR SHOCK HAZARD. DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

1. **AUDIO OUTPUT**
2. **AUDIO INPUT**
3. **LAN**: Ethernet Port
4. **VIDEO OUTPUT**
5. **CH1**: Video Input 1
6. **CH2**: Video Input 2
7. **CH3**: Video Input 3
8. **CH4**: Video Input 4
9. **DC**: DC Power Input Jack

2.3 Remote Controller

(For reference only)

1-4	Channel Select 1-4
5-9、0	Digital Key 5-9, 0
ALL	Display all Channels
Menu	Enter / Exit Menu
▲	UP Key
▼	Down Key
SEL	Select Key
◀◀	Rewind Key
▶	Play Key
▶▶	Forward Key
●	Record Key
❚❚	Pause / Playback Key
■	Stop Key
Audio	Search or Switch the Audio Channels
Mute	Turn on/off Audio Output

Chapter 3： DVR Installation

3.1 Hard Disk Installation

Notice: Don't take out HDD when DVR is running, and make sure the HDD is setting to be MASTER according to the hard drive manual.

(1) Removing the top cover carefully;

(2) Connecting the power cord and data cable to hard disck carefully;

(3) Installing the top cover as ;

3.2 Connecting Camera and Monitor

Use BNC jack to connecting Camera signal port to DVR's video inputs, and DVR's video output signal ports to Monitor respectively (refer to Chapter-2.2 Rear Panel shown)

3.3 Connecting Power Supply

Please only use the power adapter supplied with the DVR.

Chapter 4： DVR Starting

4.1 Firmware version

After opening the unit, DVR will boot-up and display the current version and released date of the DVR firmware.

4.2 Detecting Installed Hard Drive

When running, DVR will automatically detect the installed hard drive and show the hard drive information.

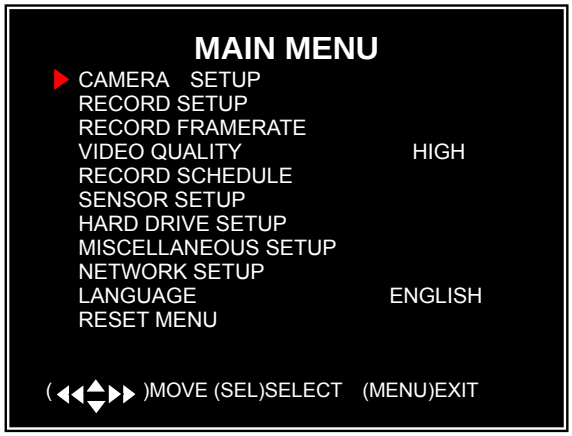
4.3 Format Hard Drive

When detecting a new hard drive, DVR will automatically prompt you if you need format the hard drive before recording.

Please press [SEL] to format , or [MENU] to cancel， and then enter system.

Chapter 5： DVR Menu System

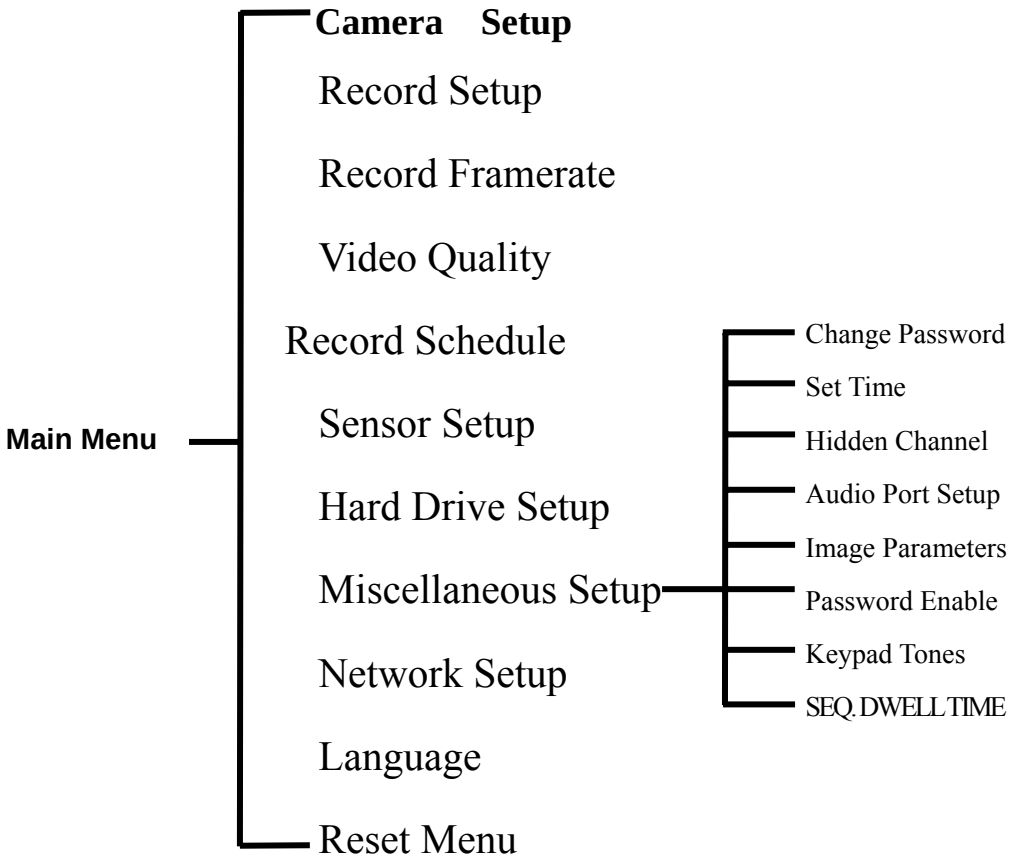
5.1 Browsing the Main Menu



When finishing setup, Please press [MENU] to enter main menus.

5.2 Menu overview

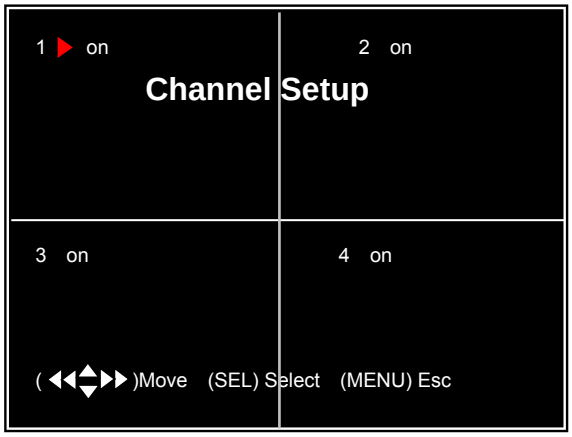
Menu Directory



Note: When DVR do not support some function, there are not according

selection in Menu. e.g. If a camera channel is set to off, the item-"Audio Setup" will be set to Menu.

5.3 Camera Setup

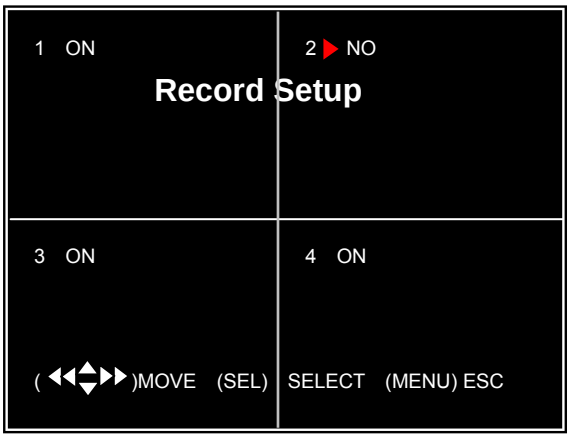


Camera Setup allows you to turn cameras on or off.

Press [▲, ▼, ◄◄ and ►►] button to select a channel, and then press [SEL] to modify the setting to "on" or "off".

Note: If a channel is disabed in Channel Setup, DVR will not record, and also not set frame rate.

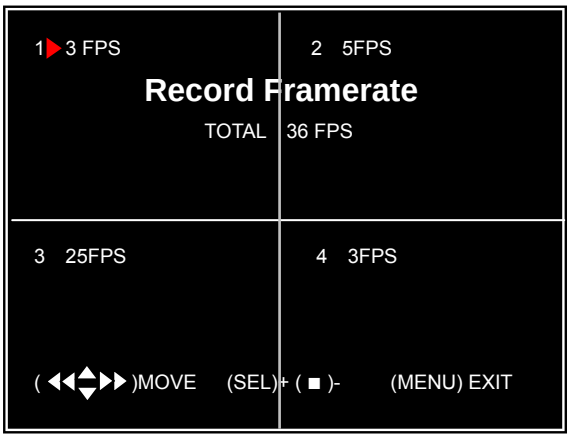
5.4 Record Setup



Record Setup allows you to set up recording channels. Press[▲, ▼, ◄◄ and ►►] to select a channel, and then press [SEL] to modify the setting to on or off.

If a channel is disabled in Camera Setup, it will not be recorded, and the characters "NOCAM" will be displayed on screen.

5.5 Record Framerate

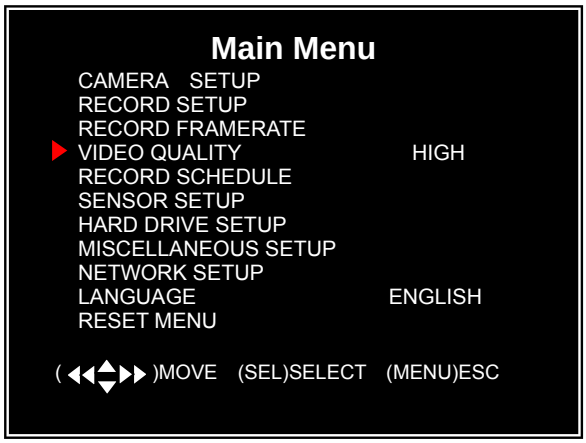


The total frame rate is 50fps (PAL) or 60fps (NTSC). You could set frame rate for the channel which you select to record as per actual status.

Press [▲, ▼, ◄◄ and ►►] button to select a channel, and then press [SEL] to increase the value or press[■STOP] to reduce the value.

Note: Higher frame rate shows smooth images, but requires more hard-drive space.

5.6 Video Quality



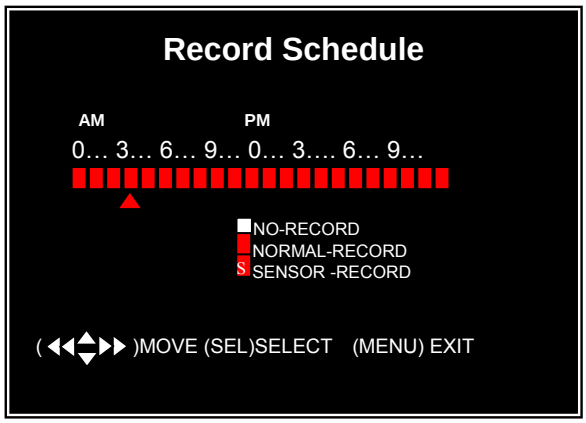
Video Quality has 4 different settings, including: Highest, High, Normal and Low.

The Higher the video quality, the better quality of Images, Howerver higher quality images require more hard driver space.

Press[SEL] button to change the quality setting.

5.7 Record Schedule

Setting the Record Schedule allows you to freely customize the type of recording depending on the time of day.



The time line indicates 24 hours of a day based on AM/PM(0=12).

Press[▲, ▼, ◄◄ and ►►] button to select a time point, press [SEL] to modify the recording mode.

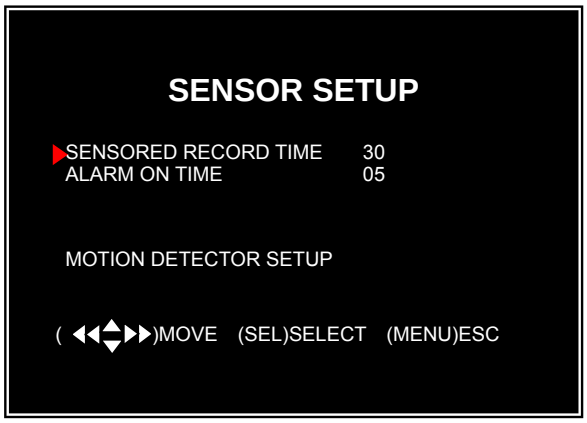
NO-RECORD [**WHITE**]:DVR will not record during the period.

NORMAL RECORD[**RED**]:DVR will record continuously during this period.

SENSOR RECORD[S]:DVR will record when sensor or motion is triggered

Note: In order to activate the record schedule, please do press [●REC] button to start Record schedule, otherwise, DVR will not proceed the record as per Record Schedule.

5.8 Sensor Setup



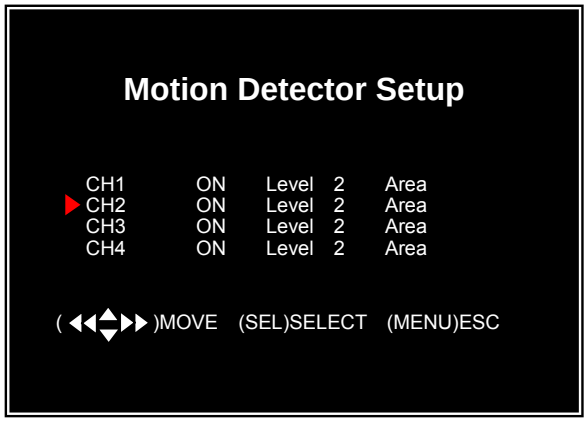
Sensor Record Time indicates how long the recording time is when the motion or sensor is triggered.

Alarm on time indicates whether the buzzer will sound when motion is detected.

CONT: Continuous alarm until any key is pressed…
OFF: No alarm
Note: Sensored Record Time and Alarm On Time are measured in seconds.

5.9 Motion Detector Setup

This section allows you to set up motion detection options for each camera.

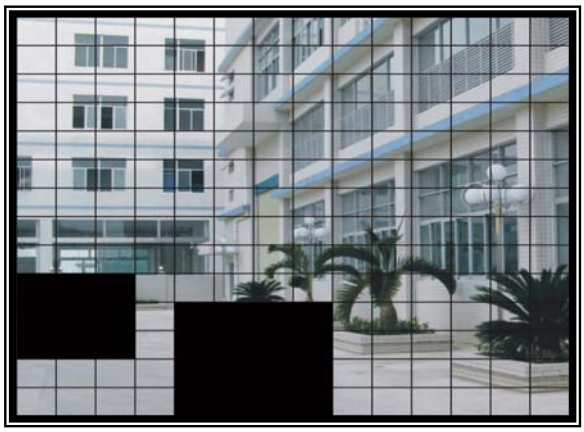


On/off : Enable or disable motion detection recording.

Level: Sensitivity for motion detection. There are 3 levels sensitivity: Level 1-low,

3- highest.

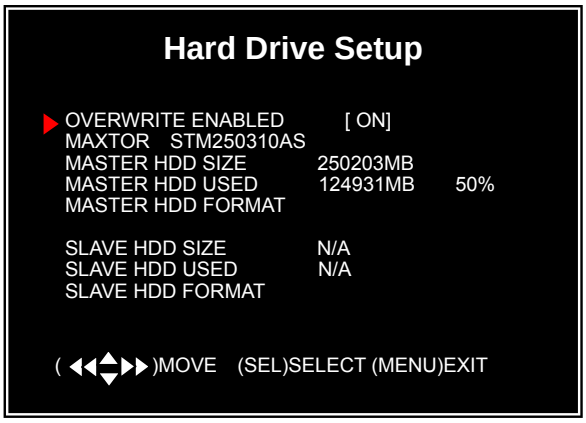
Area: Select detectable area on the screen.



Asea Selection： Press[▲, ▼, ◄◄ and ►►] button to select a block and then press [SEL] button to set the block to detect motion.The area is detectable when it is clear, the area is not detectable when it is covert by shadow.

Press “Stop” button to disable all area, and press “Quad” button to select all areas.

5.10 Hard Drive Setup



OVERWRITE ENABLED:

ON: overwrite oldest video when hard drive is full;

OFF: Stop recording when hard drive is full.

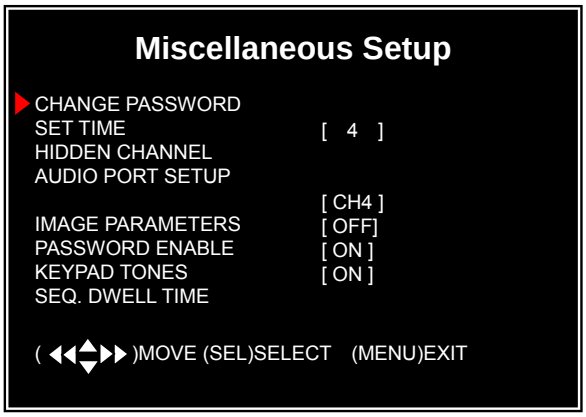
HDD SIZE: indicates the total capacity of the hard drive installed in the DVR.

HDD USED: indicates the space used in the hard disk drive for recording and the percent used.

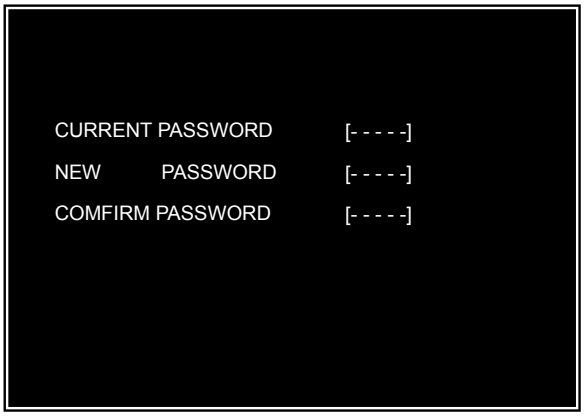
HDD FORMAT: will erase all video and data on the installed hard drive and make it readable by the DVR.

Note: You will be prompted for the password when formating a hard drive, and the default password is "111111".

5.11 Miscellaneous Setup – Change Password



The option allows you to change the system password. The password must be composed with six characters. All key can be used as password key except the [MENU] key, which is used to exit.



Enter the current password first, and then enter six characters as your new password, repeat the new password to confirm.

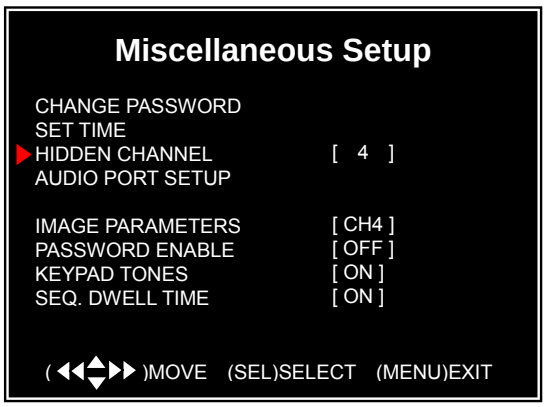
If you forget your password, please free feel to contact our authorized dealer or service center for assistance.

5.12 Miscellaneous Setup – Set Time

The system date and time format is YYYY/MM/DD and HH:MM:SS.

Press [◄◄] or[►►] button to select a data, press [SEL] button to modify the data, and press [MENU] button to save and return to previous menu.

5.13 Miscellaneous Setup – Hidden Channel



The system provides a function to hide a channel in monitoring mode. The selected channel can still be recorded while it's hidden; but the hidden images can not be viewable.

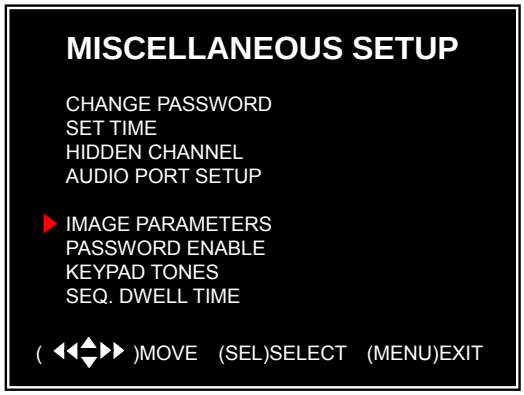
Press[SEL] to select a channel to hide.

5.14 Miscellaneous Setup – Audio Port Setup

Audio Port–Video Channel: The setting indicates the audio port is bundled with an video channel together.

Audio Port-Record: The setting allows you to record whenever audio port is adjusted to "on" or "off".

5.15 Miscellaneous Setup – Image Parameters



You can adjust the image parameters as per yourself needs.

CON：Contrast

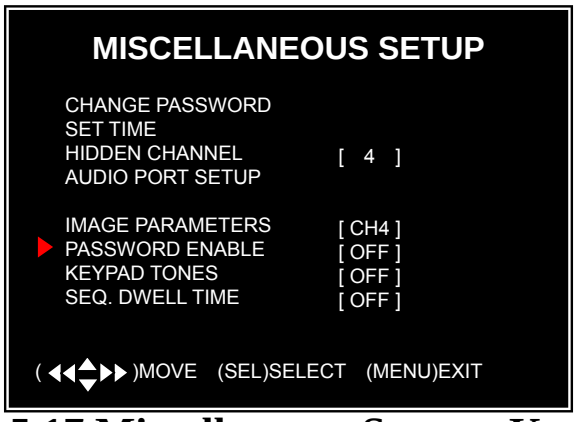
Bri：Brightness

Hue：Hue

SAT：Saturation

Press[▲] or[▼] button to select the item, and press [◄◄] or [►►] button to adjust the parameter.

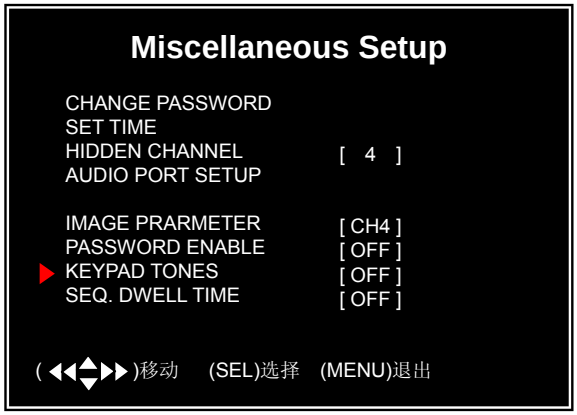
5.16 Miscellaneous Setup – Password Enable



When Password Enable is set to "on", the password will be required and make sure it's correct, otherwise, you will can not enter the system.

on the contrary, the password not required when setting to "off". （but except of formating hard drive, menu reset, customer port visit）

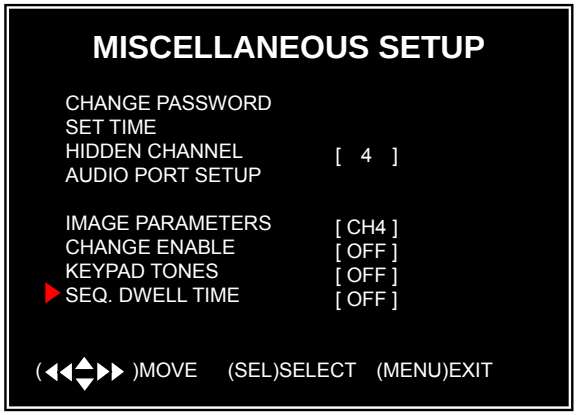
5.17 Miscellaneous Setup – Keypad tones



The function allows you to enable or disable buzzer sound when pressing [SEL] button to select ON or OFF.

Note: This function is optional, and may not be available for all the model.

5.18 Miscellaneous Setup- SEQ. DWELL TIME

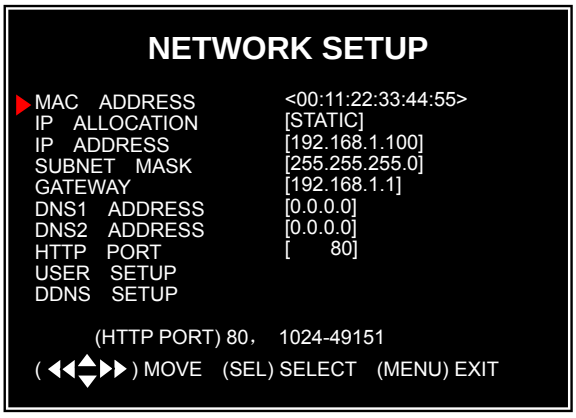


Press [◄◄]、[►►] button or Select "on" / "off", or select Seq. Dwell time to proceed the setting.

Remark: Seq. Dwell Time Option.

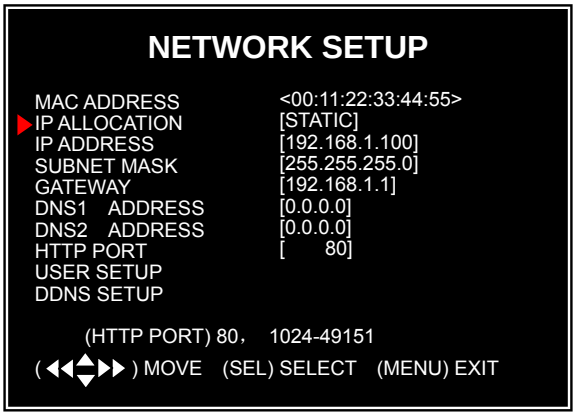
Should be 1s、5s、10s、15s、30s、60s ect.

5.19 Network Setup

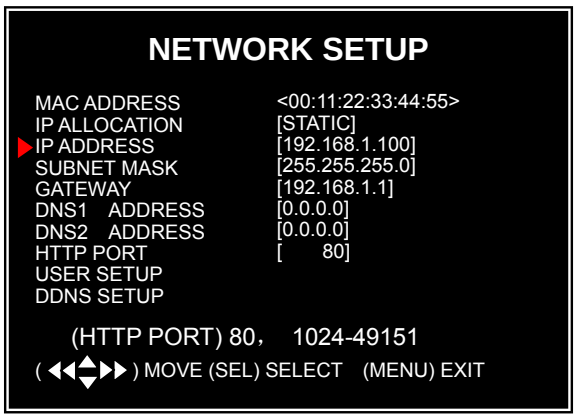


MAC address: indicates DVR network port's physical address.

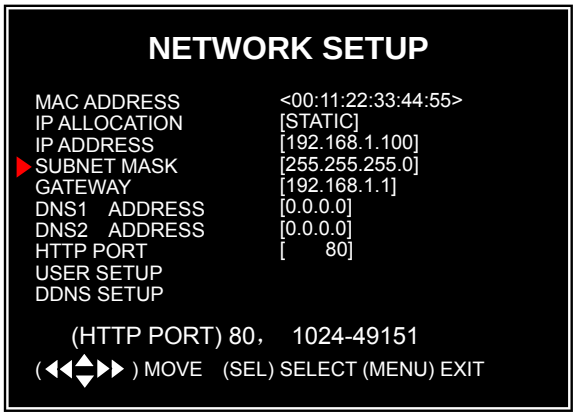
Important: MAC address should only be changed if multiple DVRs are being setup on the same network and the first code



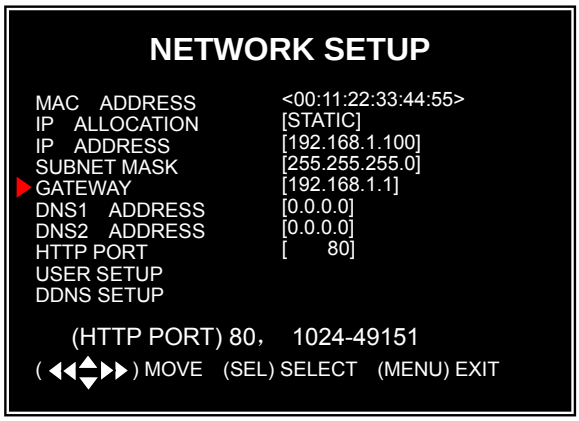
IP Allocation: DVR supports DHCP and Static IP modes. If your modem/router supports DHCP function, you can use DHCP mode. When using Static mode, you will be required to setup your IP settings manually.



IP Address: should setup your IP setting according to actual network connected to DVR. Consult your modem/router for your IP address

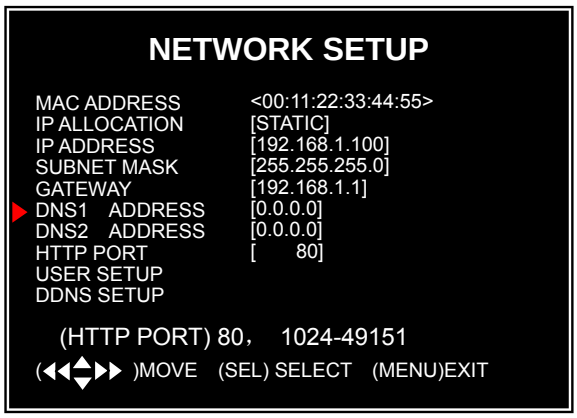


Subnet Mask：Subnet Mask is used to determine what subnet an IP address belongs to. A number that is used to identify a sub network so that IP address can be recognised on a local area network. Consult your modem/router for your LAN's subnet mask

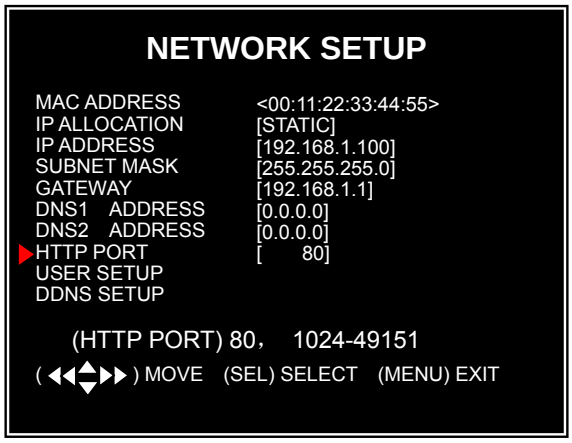


Gateway: Set this number to the gateway set by your modem /router.

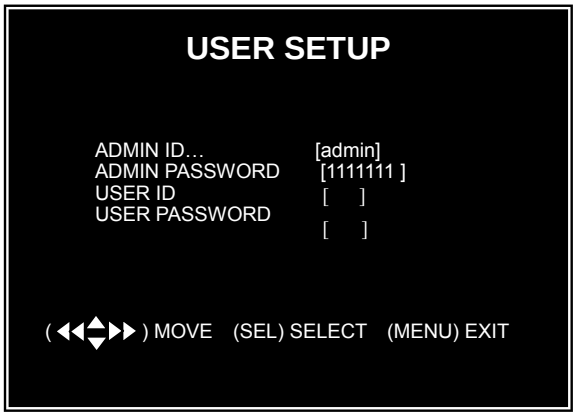
NOTE： To adjust the IP address, Subnet Mask and Gateway value, only when the [STATIC] mode is being selected.



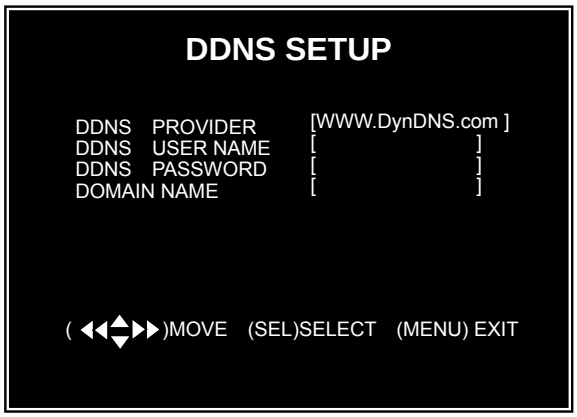
DNS Address： This code should be provided by your local ISP.



HTTP Port： This port number is used to communicated with PC client. The default value is 80 (can be changed from 1024 to 49151).

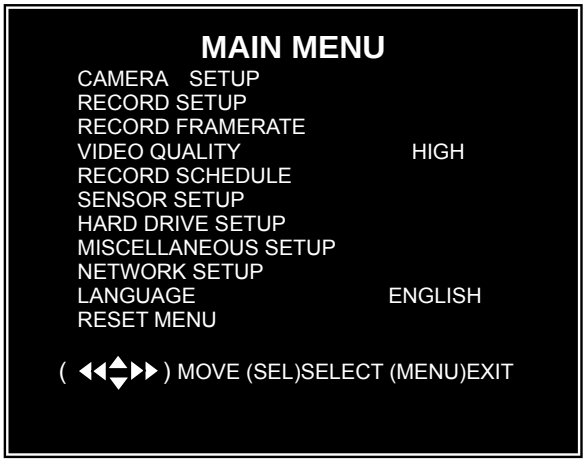


USER SETUP ： When accessing the DVR from a remote location you will be prompted for a login and password. The default is “admin” for full administrator rights. Set “user ID” and password to setup a user just with image view’ rights to prevent tampering.



DDNS SETUP：If you require an external service to maintain a dynamic IP address enter the user information here.

5.20 LANGUAGE

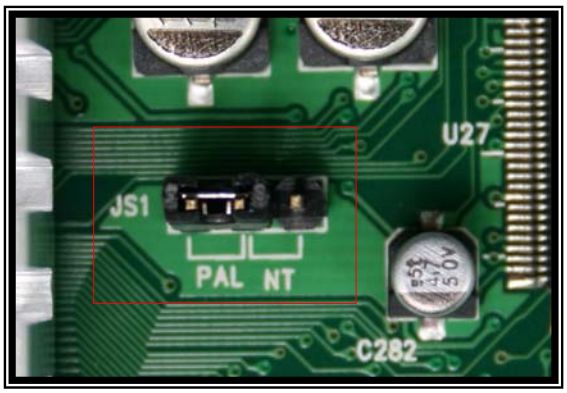


You can change the OSD language from the default English to other language if your DVR supports multi-language.

5.21 RESET MENU

System allows you to change all your settings to the DVR factory default setting. You need enter you password to reset the menu.

5.22 NTSC/PAL Output Select



Change the jumper JS1 to select NTSC or PAL video output format according to the silkscreen shown as the left picture.

Chapter 6：Record

6.1 Starting Recording

Press [●REC] button to start the recording according to the record schedule you have set. There will be a [●] red icon shown in the top left of the screen during the recording

[●]：Indicates that the channel is being recorded.

[**A-REC**]：Indicates the current record schedule is set to NORMAL-RECORD mode.

[**S-REC**]：Indicates the current record schedule is set to SENSOR-RECORD mode.

[**N-REC**]：Indicates the current record schedule is set to NO-RECORD mode.

[**39%**]：Indicates the percentage of hard disk space used.

[**M**]：HDD info ([M] MASTER HDD；[S] SLAVE HDD).

6.2 Audio Recording

[ ]：indicates this video channel is bundled with an audio port, and the audio output is on.

[ ]：indicates the audio output is off.

[ ]：indicates the audio is being recorded and the audio output is on.

You coud press [DOWN] button on front panel to be mute mode for audio

output, The audio input can be still recorded while the output is mute.

6.3 Stoping Recording

Press[■STOP] button to stop recording. If password protection function is enabled, system will prompt you to input password. Only correct password can stop recording process.

6.4 Estimated Recording Length

Estimated record time based on 160GB HDD

Standard	Quality	60fps	48fps	32fps	16fps	1fps
NTSC	Highest	62	78	116	232	3720
	High	88	110	165	330	5280
	Normal	107	134	201	401	6420
	Low	120	150	225	450	7200

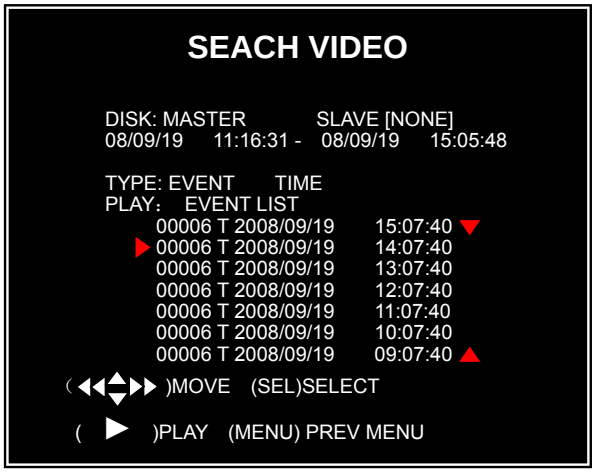
Standard	Quality	50fps	36fps	24fps	12fps	1fps
PAL	Highest	64	89	133	267	3200
	High	90	125	188	375	4500
	Normal	110	153	229	458	5500
	Low	123	171	256	513	6150

Unit： Hour

Chapter 7：Playback

7.1 Playback Control

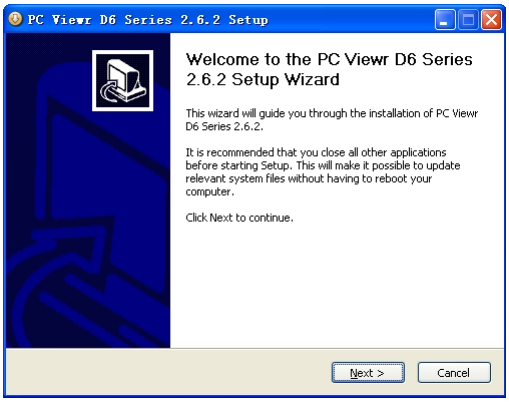
Press the [►] PLAY button to go into PLAYBACK mode. The newest record event will be played.



Press the [MENU] button at Playback mode， then the system will list all the recorded events. The latest record will be on top of the list. Press the ［▲UP］or [▼DOWN］ button to select a event and then press [►] to play the event.

Chapter 8： USB Progamming

8.1 Driver Installation


PC Viewr D6 Series 2.6.2 Setup
Welcome to the PC Viewr D6 Series 2.6.2 Setup Wizard
This wizard will guide you through the installation of PC Viewr D6 Series 2.6.2.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

Insert driver CD to your CD-ROM driver;

Open CD directory;

Run “Installation” program;

Follow the setup wizard to finish the installation.

8.2 Program Interface

Button functions：

1、PTZ Control(NO Function)	11、Convert Streams to AVI file
2、Zoom in，Zoom out	12、Fast Rewind 60s
3、HDD Play Mode	13、Fast Rewind 10s
4、FILE Play Mode	14、Forward
5、NET Play Mode	15、Stop
6、Event List	16、Playback
7、Program Local Setting	17、Fast Forward 10s
8、Remote DVR Control	18、Fast Forward 60s
9、Shift Storage Device	19、Playback Slider
10、Capture Image	20、Audio Slider

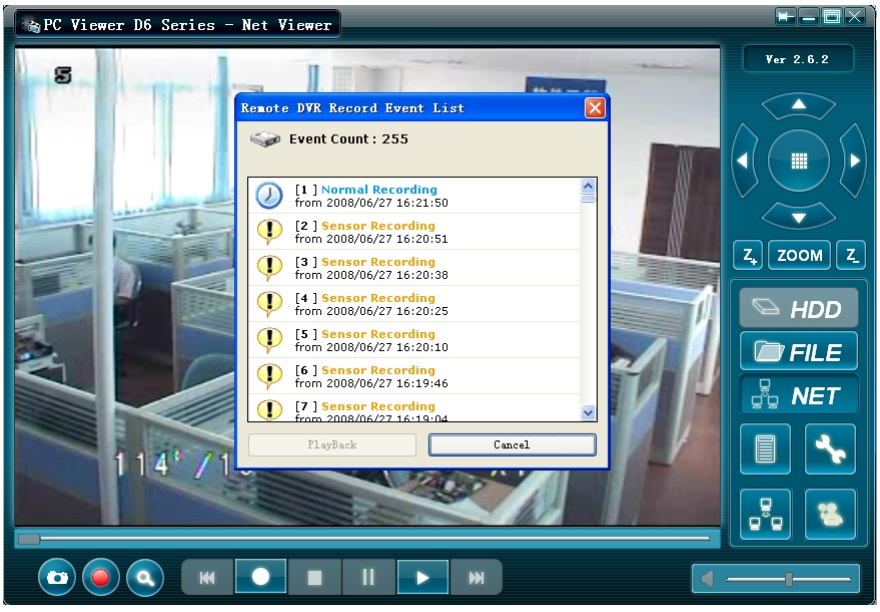
8.3 Program Running

8.3.1 HDD Play Mode

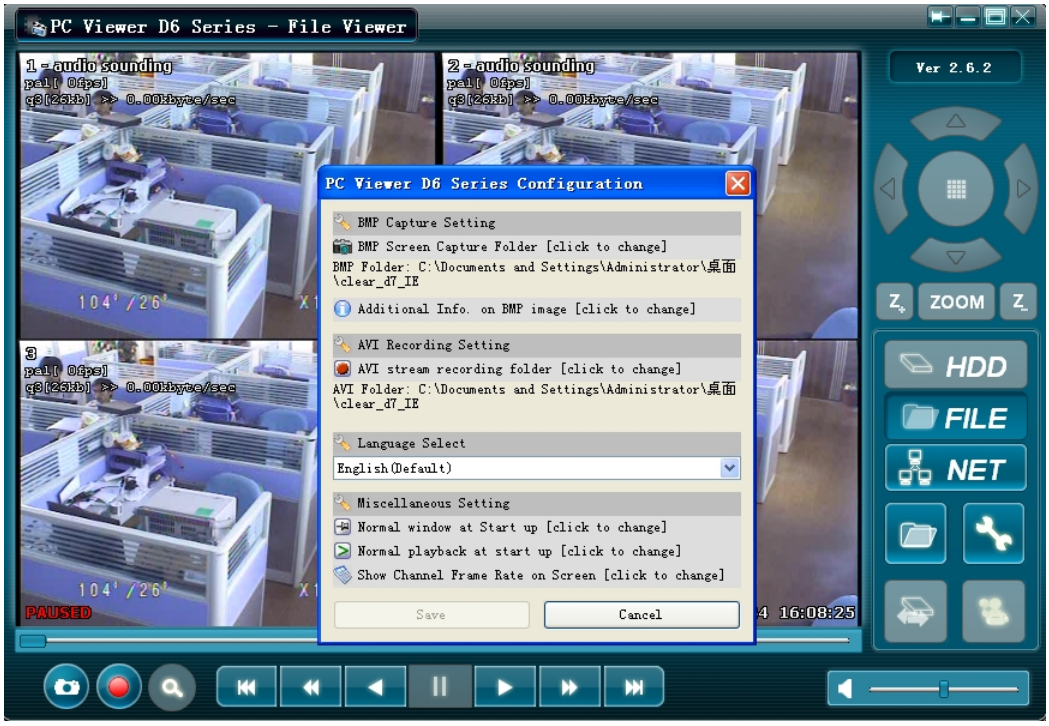
System will detect HDD automatically when you connect DVR to your PC with USB cable. An USB icon " " will appear in the system tray (right bottom corner of the screen).After seeing this icon, double-click the " " icon on your desktop to run the program.

Note: If you do not strictly follow above-mentioned steps, the program may fail to read recording files.

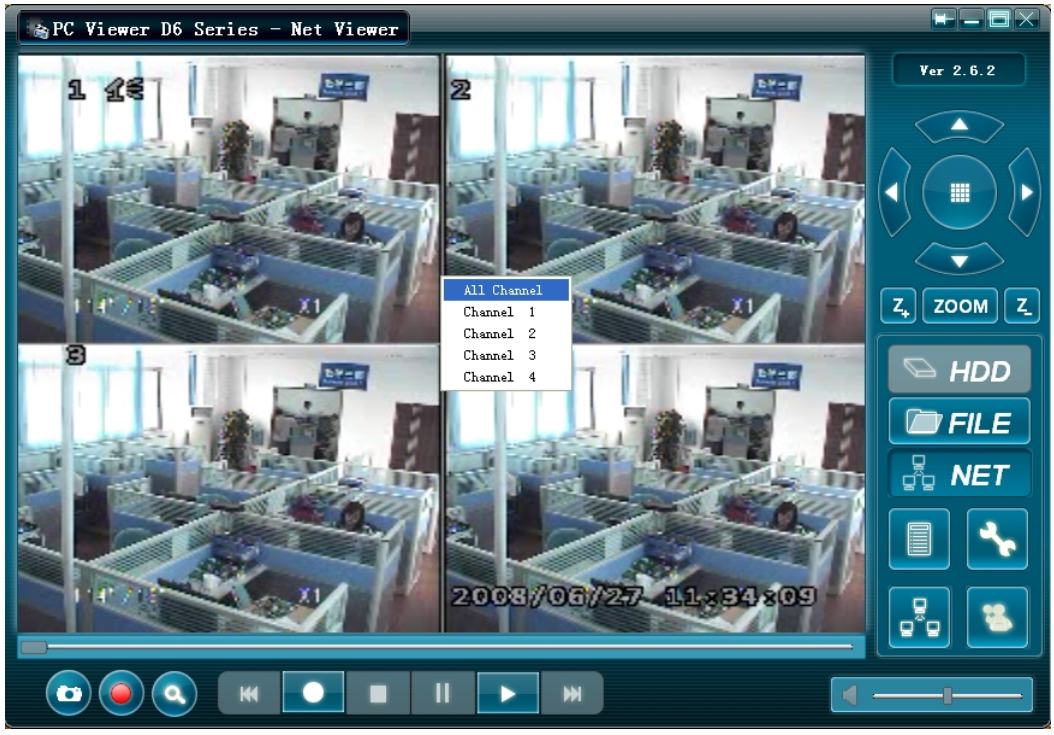
Press the " " button to open the video event list.



Press the " " button to proceed the program local settings. E.g.: Save route settings for capture image and AVI record files



Press the " " button to play video.



8.3.2 FILE Play Mode

(Only when you insert a USB memory stick to your PC.)

Press the " " button to open a folder, select the file which you want to Play and double click to play video.

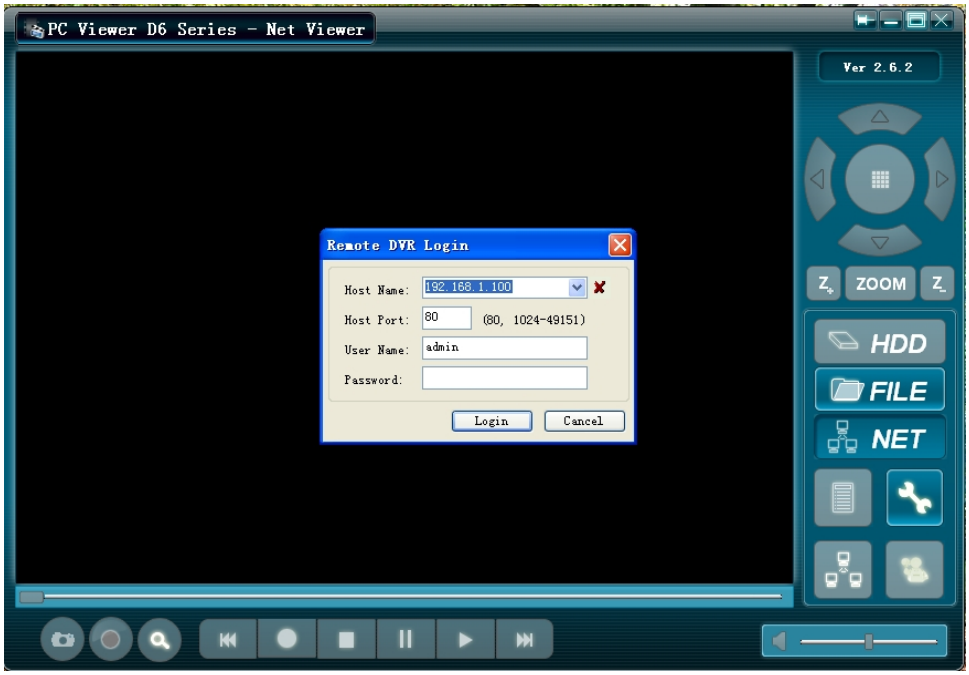
8.3.3 NET Play Mode

This mode allows you to remote control your DVR via internet or Intranet.

Press the "

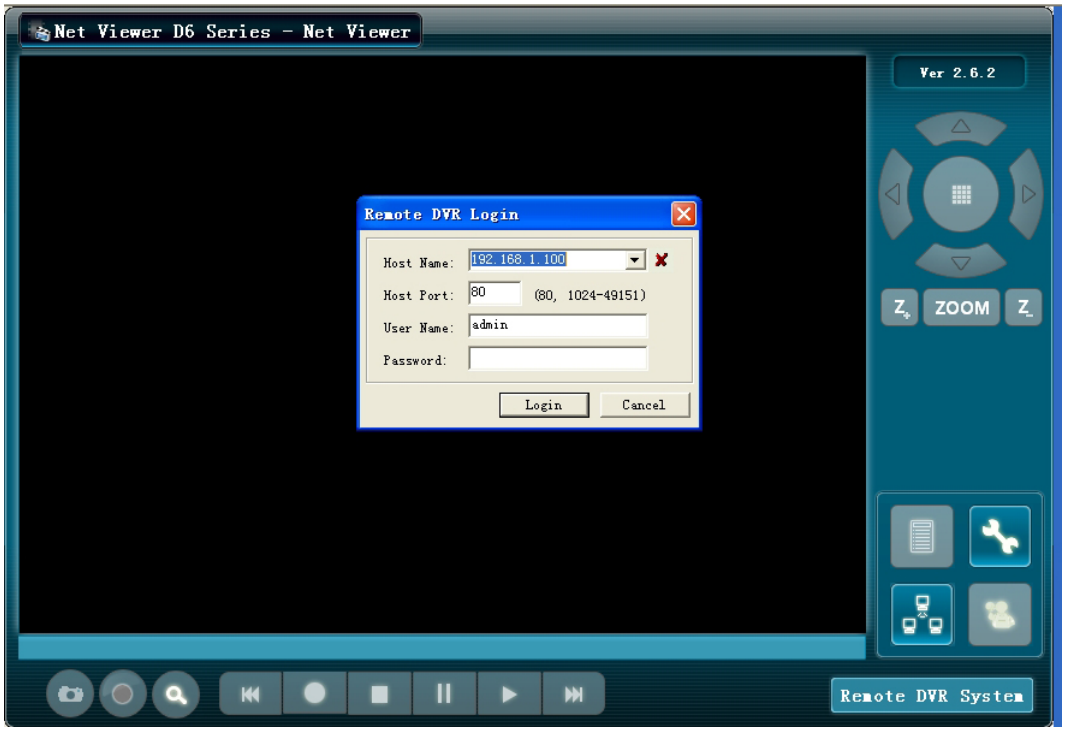
" button to pop up a login window.

Fill in Host name, Host Port, User Name and Password of the DVR that you want remotely access and then click Login to enter the main page.



8.4 IE Remote control DVR

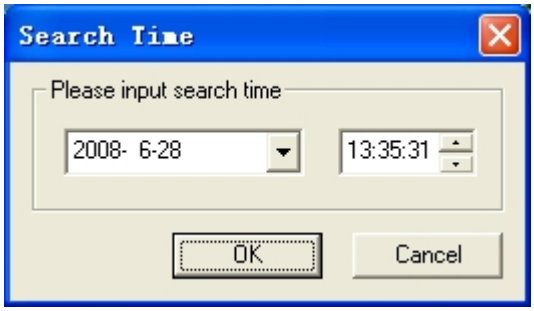
Enter IP address and domain name of remote DVR via Internet. (If port number is not 80, Please add the port no before the IP address or domain name. the system will pop up the main page shown as below):



Note: If visiting your DVR at first time, please allow to install IE software package.(All the selection relative to the package installation should be set to "on" after entering the below steps: Tools" ⟶ "Internet Option" ⟶ "Security" ⟶ "User- defined Level" ⟶ "Security Setting").

Enter IP address, Port number, user name and password of remote DVR to login in.

Press the " " button, and system will pop up the below dialog box:



Enter specified time to search record file which you want, and Press "OK" button to play the record.

Note: The function will be available only when you visit international explorer

Press the " " button to connect or disconnect remote DVR.

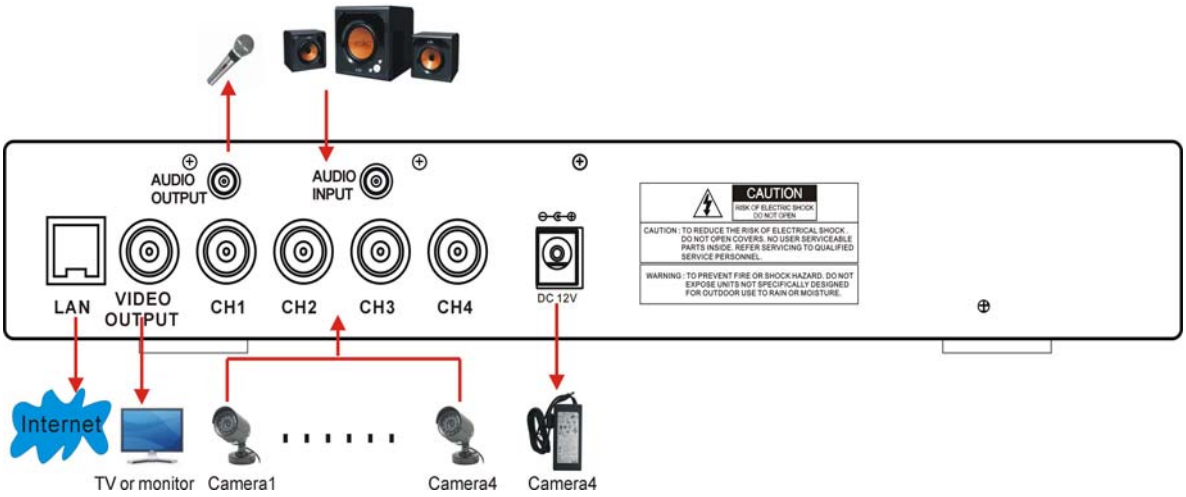
Chapter 9： Specification

DVR Specification

Items	Descriptions	
Video Standard	NTSC/PAL	
Video Input / Output	4-Channels /1Channels	
Audio Input / Output	1-Channel/1-Channel	
Pre-view	Resolution	NTSC：720X480@30fps(Each CH) PAL：720X576@25fps(Each CH)
	Features	Full-D1, 1-Channel/4-Channel/1-channelPlayback
Recording	Resolution	NTSC：720X240@60fps(Total) PAL：720X288@50fps(Total)
	Features	Variable Frame Rate
	Quality	4 Level (Highest, High, Normal, Low)
Audio	ADPCM2 CODEC	
Video	MPEG4 Compression	
Motion Detection	Settable Area and Sensitivity Detection	
Microprocessor	32-bit RISC Processor	
Network Interface	RJ45	
HDD Port	Support SATA HDD	
IE Browse	Built-in IE Browser	
USB Port	USB2.0	
Audio Port	Optional	
IR Remote Control	Support IR Remote Control	

Chapter 10： Appendix

10.1 System Connection Configuration



10.2 Accessories

(We will attach below accessories to you as per your purchasing status):

☐ **Power Cord**

☐ **Power Adaptor**

☐ **User's Manual**

☐ **Guarantee Card**

☐**Quality Cert.**

☐ **CD Disk**

☐**Remote Controller**

☐**Batteries for RC**

☐**Screws**

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